

IN THE CLAIMS

1 (1) Claim 40: (original) A telephone call/voice processing system comprising:

2 circuitry adaptable for coupling the system to an analog telephone extension, wherein the
3 analog telephone extension includes a display operable for displaying alphanumeric information, and
4 wherein the analog telephone extension includes a first caller ID modem;

5 circuitry for creating and storing a message associated with the analog telephone extension;

6 a second caller ID modem coupled to the circuitry adaptable for coupling the system to the
7 analog telephone extension;

8 circuitry for retrieving the message from the storing circuitry to the second caller ID modem;

9 circuitry for sending the message from the second caller ID modem to the first caller ID
10 modem; and

11 circuitry for displaying the message on the display,

12 wherein the message does not include typical caller ID information.

1 (2) Claim 41: (original) The system as recited in claim 40, wherein retrieval and sending of the
2 message to the first caller ID modem is performed in response to receipt of an incoming call to the
3 system intended for the analog telephone extension.

1 (3) Claim 42: (original) The system as recited in claim 41, wherein the message is sent to the first
2 caller ID modem while the analog telephone extension is being rung by the system.

1 (4) Claim 43: (original) The system as recited in claim 40, wherein typical caller ID information
2 includes a phone number and an identity of a calling party.

1 (5) Claim 44: (original) The system as recited in claim 42, further comprising:
2 circuitry for coupling the system to a public switched telephone network; and
3 circuitry for receiving the incoming call from the public switched telephone network.

1 (6) Claim 45: (original) The system as recited in claim 42, further comprising:
2 switching circuitry adaptable for receiving the incoming call, wherein the switching circuitry
3 is adaptable for connecting the incoming call to the analog telephone extension; and
4 voice processing circuitry adaptable for automatically interacting with the incoming call,
5 wherein the switching circuitry and the voice processing circuitry are controlled by a single
6 processing means in the system.

1 (7) Claim 46: (original) The system as recited in claim 45, wherein the voice processing circuitry
2 further comprises a signal processing circuitry coupled to the single processing means.

1 (8) Claim 47: (original) The system as recited in claim 46, wherein the switching circuitry further
2 comprises a digital cross-point matrix coupled to the single processing means and to the signal
3 processing circuitry.

1 (9) Claim 48: (original) The system as recited in claim 45, wherein the single processing means
2 is controlled by a single set of software operable for controlling both the switching circuitry and the
3 voice processing circuitry.

1 (10) Claim 49: (original) In a telephone call/voice processing system, a method comprising the
2 steps of:

3 creating and storing a message associated with an analog telephone extension coupled to the
4 system, wherein the analog telephone extension includes a display operable for displaying

5 alphanumeric information, and wherein the analog telephone extension includes a first caller ID
6 modem;

7 retrieving the message to a second caller ID modem in said system; and

8 sending the message from the second caller ID modem to the first caller ID modem,

9 wherein the message does not include typical caller ID information.

1 (11) Claim 50: (original) The method as recited in claim 49, further comprising the step of:

2 displaying the message on the display.

1 (12) Claim 51: (original) The method as recited in claim 50, wherein the retrieving and sending
2 steps are performed in response to receipt of an incoming call to the system intended for the analog
3 telephone extension.

1 (13) Claim 52: (original) The method as recited in claim 51, wherein the sending step includes the
2 step of ringing the analog telephone extension in response to the receipt of the incoming call.

1 (14) Claim 53: (original) The method as recited in claim 49, wherein typical caller ID information
2 includes a phone number and an identity of a calling party.

1 (15) Claim 54: (original) The method as recited in claim 52, wherein the incoming call is received
2 from a public switched telephone network coupled to the system.

1 (16) Claim 55: (original) A method comprising the steps of:
2 formulating a non-typical caller ID message; and
3 transmitting between first and second caller ID modems the non-typical caller ID message.

1 (17) Claim 56: (original) The method as recited in claim 55, wherein a typical caller ID message
2 includes one or both of a phone number and an identity of a calling party.

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1 (18) Claim 57: (original) The method as recited in claim 55, wherein the transmitting step further
2 comprises the steps of:

3 retrieving the non-typical caller ID message by the first caller ID modem;
4 in the first caller ID modem, converting the message into tones;
5 transmitting the tones to the second caller ID modem; and
6 in the second caller ID modem, converting the tones back into the message.

1 (19) Claim 58: (original) The method as recited in claim 57, further comprising the steps of:
2 delivering the message from the second caller ID modem to a display circuit in a telephone
3 unit; and
4 displaying the message.

1 (20) Claim 59: (original) The method as recited in claim 58, wherein the transmitting step is
2 performed in response to receipt of an incoming call intended for the telephone unit, and wherein
3 the transmitting step is performed in conjunction with connecting the incoming call to the telephone
4 unit.

1 (21) Claim 60: (new) The system as recited in claim 45, wherein the voice processing circuitry
2 includes a voice mail system.